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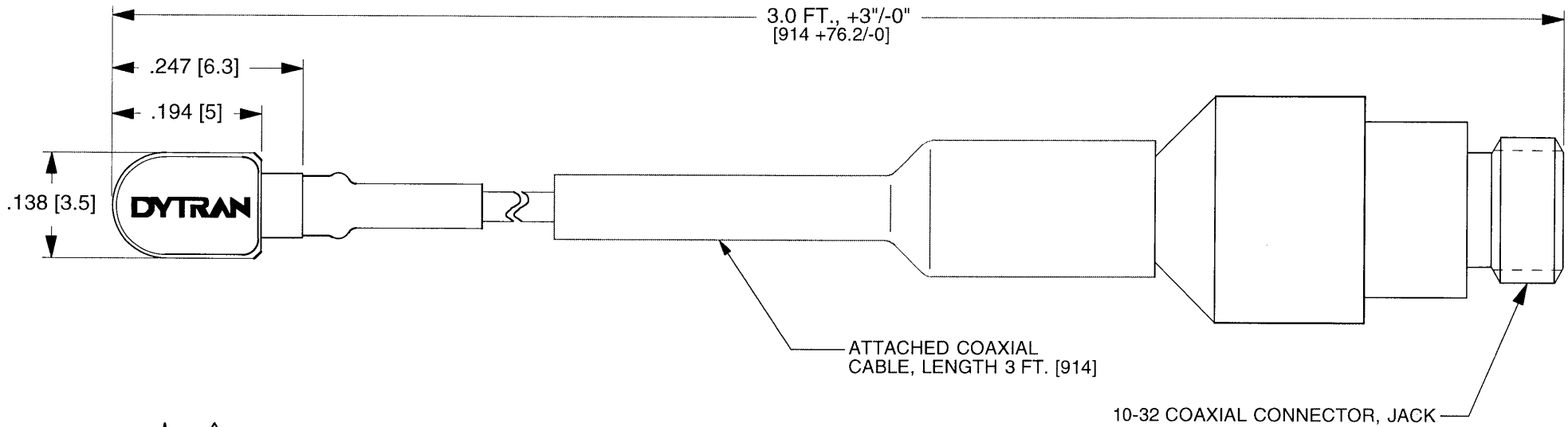
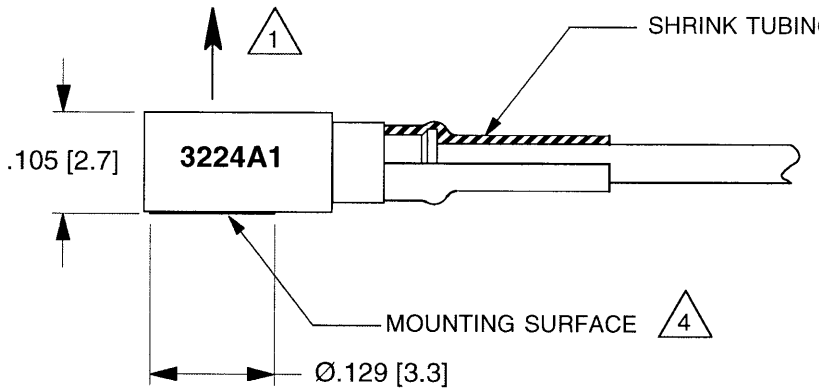
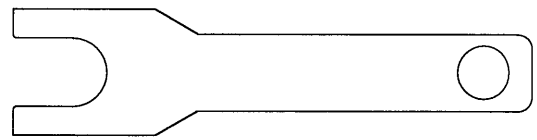
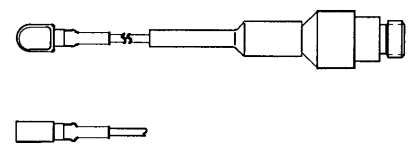
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5406	INITIAL RELEASE	NC/8-11-08	DV	ANS
B	6301	SEE ECN	RA, 10/05/09		







MODEL 6725 REMOVAL
TOOL, INCLUDED
SCALE: 2.5X



ACTUAL SIZE

4 APPLY ADHESIVE TO THIS SURFACE TO MOUNT.

3. CASE AND CONNECTOR MATERIAL: TITANIUM.
2. WEIGHT LESS CABLE: 0.2 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS.
TOLERANCES ARE:

INCHES	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.005	.XX ±0.25	

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MASTER
ONLY IF IN RED

SCALE 5X	DESIGN N.C.	DATE 1/15/08				
DRAWN N.C.	DATE 1/15/08	PART NO. MODEL 3224A1				
CHECKED CES	DATE 3/25/09	MAT'L				B
APPROVED ANS	DATE 3/23/09	NEXT ASSEMBLY	USED ON			

TITLE
OUTLINE/INSTALLATION DRAWING, MODEL 3224A1 ACCELEROMETER, 10 mV/g

DWG NO. **127-3224A1**

SHEET 1 OF 1

MODEL NUMBER	PERFORMANCE SPECIFICATION	DOC NO.
3224A1		PS3224A1
	IEPE ACCELEROMETER	REV B,ECN 6440,12/02/09

- **MINIATURE SIZE**
- **HIGH SENSITIVITY**
- **EPOXY SEALED CABLE CONNECTION**

	ENGLISH		SI	
PHYSICAL				
Weight, Less Cable	0.007	oz	0.2	grams
Mounting Provision	[1]		[1]	
Connector [2]	Integral cable		Integral cable	
Case Material	Titanium		Titanium	
Sensing Element	Planar Shear Piezoceramic		Planar Shear Piezoceramic	
PERFORMANCE				
Sensitivity [3] [4]	9 to 14	mV/g	.9to 1.4	mV/ m/s^2
Range F.S. For ± 5 Volts Output	± 500	g	± 4905	m/s^2
Frequency Response, ±5%	1.6 to 20000	Hz	1.6 to 20000	Hz
Frequency Response, ±10%	0.4 to 30000	Hz	0.4 to 30000	Hz
Frequency Response, ±3db	0.15 to 60000	Hz	0.15 to 60000	Hz
Resonant Frequency, NOM	>95	kHz	>95	kHz
Equivalent Electrical Noise Floor	0.017	g rms	0.167	m/s^2 rms
Amplitude Non-Linearity [5]	± 2%	%F.S	± 1%	%F.S
Transverse Sensitivity, Max.	5%		5%	
Strain Sensitivity @250με	0.14	g/με	1.37	m/s^2/με
ENVIRONMENTAL				
Maximum Vibration	900	grms	8820	m/s^2 rms
Maximum Shock	3000	±gpk	29400	± m/s^2 pk
Temperature Range	-60 to +300	°F	-51 to 149	°C
Seal	Laser welded, Epoxy Sealed Cable		Laser welded, Epoxy Sealed Cable	
ELECTRICAL				
Supply Current [6]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	18 to +30	V	18 to +30	V
Output Impedance TYP	100	Ω	100	Ω
Bias Voltage	+8 to +10	VDC	+8 to +10	VDC
Discharge Time Constant	1.1 to 1.5	sec	1.1 to 1.5	sec
Output Signal Polarity for Acceleration Toward Top	Positive		Positive	
Case Grounding	[7]		[7]	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC (sec)
3224A2	2 to 5	2500	0.03	-60 to 300	0.3 to 0.5
3224A3	5 to 10	1000	0.025	-60 to 300	1.1 to 1.5

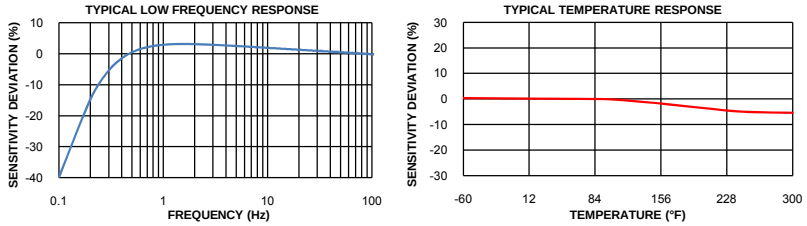
Please, refer to the performance specifications of the products in this family for detailed description.

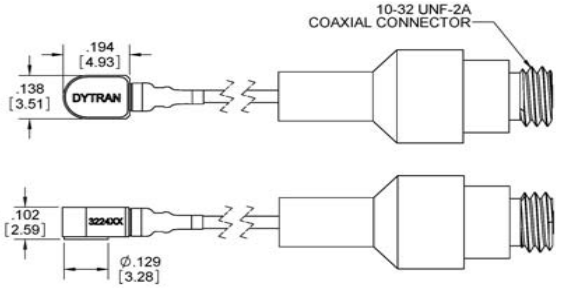
Supplied Accessories:

1) Model 6725 installation removal wrench.
2) Sample of " Small Petro Mounting Wax".
3) Accredited calibration certificate (ISO 17025)

Notes:

[1] Flat mounting surface for adhesive mount.
[2] 10-32 Jack at end of integral 3FT.cable
[3] Measured at 100 Hz, 1 G rms per ISA RP 37.2.
[4] Actual sensitivity is given on a calibration certificate traceable to ISO 17025, supplied with each instrument
[5] Measured using zero-based best straight-line method.
[6] Do not apply power to this device without current limiting, 20 mA MAX.
To do so will destroy the integral IC amplifier.
[7] Case is grounded to electrical signal/power ground.





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3224A1 for more information.

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